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<input type="checkbox"/>	L4	l2 not L3	6
<input type="checkbox"/>	L3	L2 and (variant or muta\$)	10
<input type="checkbox"/>	L2	L1 and insolens	16
<input type="checkbox"/>	L1	(LIPOLYTIC OR LIPASE) and cutin	49

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Search Results - Record(s) 1 through 6 of 6 returned.

1. Document ID: US 20040009564 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 6

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009564

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040009564 A1

TITLE: Enzymatic hydrolysis of cyclic oligomers

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Riegels, Martin	Leichlingen	NC	DE	
Koch, Rainhard	Koln		DE	
Pedersen, Lars Saaby	Farum		DE	
Lund, Henrik	Raleigh		US	

US-CL-CURRENT: 435/135; 435/170

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn De](#)

2. Document ID: US 20030082755 A1

L4: Entry 2 of 6

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082755

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082755 A1

TITLE: Enzymes useful for changing the properties of polyester

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dyson, Wade	Mocksville	NC	US	
Kellis, James T. JR.	Portola Valley	CA	US	
Poulouse, Ayrookaran J.	Belmont	CA	US	
Yoon, Mee-Young	Palo Alto	CA	US	

US-CL-CURRENT: 435/135, 435/263, 442/59, 525/418

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Drawn De](#)

3. Document ID: US 20020007518 A1

L4: Entry 3 of 6

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020007518

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020007518 A1

TITLE: Enzymatic modification of the surface of a polyester fiber or article

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kellis, James T. JR.	Portola Valley	CA	US	
Poulose, Ayrookaran J.	Belmont	CA	US	
Yoon, Mee-Young	Palo Alto	CA	US	

US-CL-CURRENT: 8/115.51

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Drawn De](#)

4. Document ID: US 6548278 B1

L4: Entry 4 of 6

File: USPT

Apr 15, 2003

US-PAT-NO: 6548278

DOCUMENT-IDENTIFIER: US 6548278 B1

TITLE: Enzymatic hydrolysis of cyclic oligomers

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Drawn De](#)

5. Document ID: US 6254645 B1

L4: Entry 5 of 6

File: USPT

Jul 3, 2001

US-PAT-NO: 6254645

DOCUMENT-IDENTIFIER: US 6254645 B1

TITLE: Enzymatic modification of the surface of a polyester fiber or article

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Drawn De](#)

6. Document ID: US 6184010 B1

L4: Entry 6 of 6

File: USPT

Feb 6, 2001

US-PAT-NO: 6184010

DOCUMENT-IDENTIFIER: US 6184010 B1

TITLE: Enzymatic hydrolysis of cyclic oligomers

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Text](#) | [Chemical](#) | [Claims](#) | [KMC](#) | [Drawn](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACs](#)

Terms	Documents
L2 not L3	6

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Search Results - Record(s) 1 through 10 of 10 returned.

1. Document ID: US 20040082056 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 10

File: PGPB

Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040082056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040082056 A1

TITLE: Process for enzymatic hydrolysis of cyclic oligomers

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jump, Joe	Raleigh	NC	US	
McCloskey, Stephanie	Wake Forest	NC	US	

US-CL-CURRENT: 435/263; 435/264, 8/401

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn De](#)

2. Document ID: US 20040063184 A1

L3: Entry 2 of 10

File: PGPB

Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040063184

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040063184 A1

TITLE: Fermentation processes and compositions

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Grichko, Varvara	Raleigh	NC	US	

US-CL-CURRENT: 435/161; 435/105

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn De](#)

3. Document ID: US 20030199069 A1

L3: Entry 3 of 10

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199069
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030199069 A1

TITLE: Novel lipolytic enzymes

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fuglsang, Claus Crone	Nivaa	CA	DK	
Okkels, Jens Sigurd	Frederiksberg C.		DK	
Petersen, Dorte Aaby	Valby		DK	
Patkar, Shamkant Anant	Lyngby		DK	
Thellersen, Marianne	Frederiksberg C.		DK	
Svendsen, Allan	Birkeroed		DK	
Borch, Kim	Kobenhavn K		DK	
Royer, John C.	Davis		US	
Kretzschmar, Titus	Vaerlose		DK	
Halkier, Torben	Birkeroed		DK	
Vind, Jesper	Lyngby		DK	
Jorgensen, Steen Troels	Alleroed		DK	

US-CL-CURRENT: 435/198; 435/320.1, 435/325, 435/69.1, 536/23.2
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Draw](#) [D](#)

4. Document ID: US 20030054510 A1

L3: Entry 4 of 10

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054510
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030054510 A1

TITLE: Process for the preparation of substituted 3-phenyl-propanoic acid esters and substituted 3-phenyl-propanoic acids

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ebdrup, Soren	Kobenhavn O		DK	
Deussen, Heinz-Josef W.	Soborg		DK	
Zundel, Magali	Soborg		DK	

h e b b g e e e f e ef b e

US-CL-CURRENT: 435/135

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Ds](#)

5. Document ID: US 20030008361 A1

L3: Entry 5 of 10

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030008361

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030008361 A1

TITLE: Process for the preparation of substituted 3-phenyl-propanoic acid esters and substituted 3-phenyl-propanoic acids

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ebdrup, Soren	Kobenhavn O		DK	
Deussen, Heinz-Josef W.	Soborg		DK	
Zundel, Magali	Soborg		DK	
Bury, Paul Stanley	Kobenhavn NV		DK	

US-CL-CURRENT: 435/135; 435/136

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Ds](#)

6. Document ID: US 20020123123 A1

L3: Entry 6 of 10

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123123

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123123 A1

TITLE: Cutinase variants

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Horsholm		DK	
Glad, Sanne O. Schroder	Ballerup		DK	
Fukuyama, Shiro	Chiba		JP	
Matsui, Tomoko	Chiba		JP	

US-CL-CURRENT: 435/200; 435/252.3, 435/254.2, 435/320.1, 435/69.1, 536/23.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Ds](#)

7. Document ID: US 20020066144 A1

L3: Entry 7 of 10

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020066144
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020066144 A1

TITLE: Redeposition or backstain inhibition during stonewashing process

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Uyama, Naoto	Chiba-prefecture		JP	
Daimon, Kosaku	Chiba-ken		JP	

US-CL-CURRENT: 8/115.51

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#)

8. Document ID: US 6743608 B2

L3: Entry 8 of 10

File: USPT

Jun 1, 2004

US-PAT-NO: 6743608
DOCUMENT-IDENTIFIER: US 6743608 B2

TITLE: Process for the preparation of substituted 3-phenyl-propanoic acid esters and substituted 3-phenyl-propanoic acids

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#)

9. Document ID: US 6495357 B1

L3: Entry 9 of 10

File: USPT

Dec 17, 2002

US-PAT-NO: 6495357
DOCUMENT-IDENTIFIER: US 6495357 B1

TITLE: Lipolytic enzymes

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#)

10. Document ID: US 5821102 A

L3: Entry 10 of 10

File: USPT

Oct 13, 1998

• US-PAT-NO: 5821102
DOCUMENT-IDENTIFIER: US 5821102 A

TITLE: Nucleic acids encoding polypeptides having absidia lipase activity

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw](#) | [De](#)

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Terms	Documents
L2 and (variant or muta\$)	10

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NEWS	4	May 12 Polymer Links for the POLYLINK command completed in REGISTRY
NEWS	5	May 27 New UPM (Update Code Maximum) field for more efficient patent SDIs in CPlus
NEWS	6	May 27 CPlus super roles and document types searchable in REGISTRY
NEWS	7	Jun 28 Additional enzyme-catalyzed reactions added to CASREACT
NEWS	8	Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS	9	Jul 12 BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS	10	Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
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NEWS	12	AUG 02 CPlus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	13	AUG 02 STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS	14	AUG 02 The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS	15	AUG 04 Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004
NEWS	16	AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage
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NEWS	18	SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS	19	SEP 01 New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	20	SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS EXPRESS		JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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=> s (lipolytic or lipase) (10a) cutin

L1 26 (LIPOLYTIC OR LIPASE) (10A) CUTIN

=> s l1 and insolens

L2 0 L1 AND INSOLENS

=> s (lipolytic or lipase) and (cutin or cutinase)

L3 983 (LIPOLYTIC OR LIPASE) AND (CUTIN OR CUTINASE)

=> s l3 and insolens

L4 40 L3 AND INSOLENS

=> s l1 not l3

L5 0 L1 NOT L3

=> dup rem l4

PROCESSING COMPLETED FOR L4

L6 29 DUP REM L4 (11 DUPLICATES REMOVED)

=> d 1-10

L6 ANSWER 1 OF 29 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

DUPLICATE 1

AN 2004-17186 BIOTECHDS

TI Detergent composition useful for washing fabric, and hard surface, comprising endo-glucanase having anti-redeposition property; surfactant having endo-glucanase activity defined by bioinformatics

AU GIBSON K; HANSEN L

PA NOVOZYMES AS

PI WO 2004053039 24 Jun 2004

AI WO 2003-DK844 10 Dec 2003

PRAI DK 2002-1898 11 Dec 2002; DK 2002-1898 11 Dec 2002

DT Patent

LA English

OS WPI: 2004-468827 [44]

L6 ANSWER 2 OF 29 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

DUPLICATE 2

AN 2004-11814 BIOTECHDS

TI Enzymatic hydrolysis of cyclic oligomers of poly(ethylene terephthalate)

for fibers used in textile industry, involves subjecting cyclic oligomer to action of carboxylic ester hydrolase(s), and nonionic, nonlinear surfactant;

poly(ethylene terephthalate) hydrolysis using enzyme for use in textile industry

AU JUMP J; MCCLOSKEY S
PA NOVOZYMES NORTH AMERICA INC
PI WO 2004016669 26 Feb 2004
AI WO 2003-US24568 6 Aug 2003
PRAI US 2002-404068 16 Aug 2002; US 2002-404068 16 Aug 2002
DT Patent
LA English
OS WPI: 2004-268972 [25]

L6 ANSWER 3 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:570090 HCAPLUS

DN 141:125061
TI Color clarification and biopolishing of polyester fabrics and garments using enzyme

IN Jump, Joe; Mccloskey, Stephanie
PA Novozymes North America, Inc., USA
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004059075	A1	20040715	WO 2003-US41020	20031222
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ		
	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		

PRAI US 2002-436073P P 20021223

L6 ANSWER 4 OF 29 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 3

AN 2003-24300 BIOTECHDS

TI Producing a plant polypeptide in a filamentous fungus (e.g. *Aspergillus*) host cell comprises introducing into and expressing in the cell a DNA sequence encoding the polypeptide and that is codon-optimized for expression in the cell;

involving vector-mediated *Aspergillus oryzae* or *Aspergillus niger* amylase, *Aspergillus niger* glucoamylase, *Rhizomucor miehei* aspartic protease, *Humicola ***insolens**** cellulase and ****cutinase**** and *Humicola lanuginosa* or *Candida antartica* ****lipase**** gene transfer and expression in fungus cell

AU TAIRA R; TSUTSUMI N; TERUI Y; TAKAGI S

PA NOVOZYMES AS

PI WO 2003070957 28 Aug 2003

AI WO 2003-DK108 19 Feb 2003

PRAI DK 2002-871 7 Jun 2002; DK 2002-263 20 Feb 2002

DT Patent

LA English

OS WPI: 2003-671815 [63]

L6 ANSWER 5 OF 29 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 4

AN 2003-11427 BIOTECHDS

TI New enzyme exhibiting endo-beta-1,4-glucanase activity, useful in detergent compositions, oil industry textile finishing processes, biomass degradation, laundry, and stone washing;

vector-mediated gene transfer and expression in host cell for surfactant composition manufacture

AU OUTTRUP H; SCHUELIN M; ESKELUND M B; GIBSON K

PA NOVOZYMES AS

PI WO 2002099091 12 Dec 2002

AI WO 2002-DK381 6 Jun 2002

PRAI DK 2001-879 6 Jun 2001; DK 2001-879 6 Jun 2001

DT. Patent
LA English
OS WPI: 2003-256232 [25]

L6 ANSWER 6 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:906610 HCAPLUS
DN 138:5777
TI Use of ***lipolytic*** enzymes for stickies control
IN Borch, Kim; Lund, Henrik; Sharyo, Masaki; Sakaguchi, Hiromichi; Pedersen, Hanne Host; Fitzhenry, James William
PA Novozymes A/s, Den.
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002095127	A2	20021128	WO 2002-DK326	20020517
	WO 2002095127	A3	20030501		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1402109	A2	20040331	EP 2002-742833	20020517
	R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO, MK			GB, GR, IT, LI, LU, NL, SE, MC, PT, CY, AL, TR	
	JP 2004525283	T2	20040819	JP 2002-591582	20020517
	US 2003051836	A1	20030320	US 2002-152300	20020521
PRAI	DK 2001-813	A	20010521		
	US 2001-294539P	P	20010530		
	WO 2002-DK326	W	20020517		

L6 ANSWER 7 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:546840 HCAPLUS
DN 139:97107
TI Studies on ferulic acid esterase activity in fungal ***lipases*** and ***cutinases***
AU Andersen, A.; Svendsen, A.; Vind, J.; Lassen, S. F.; Hjort, C.; Borch, K.; Patkar, S. A.
CS Department of Protein Chemistry, Novozymes A/S, Bagsvaerd, S107 2880, Den.
SO Colloids and Surfaces, B: Biointerfaces (2002), 26(1-2), 47-55
CODEN: CSBSEQ; ISSN: 0927-7765
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 29 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 5
AN 2001-08032 BIOTECHDS
TI Processes for the enantioseparation of substituted 3-phenyl-propanoic acid and its esters comprise enzymatic kinetic resolution by hydrolysis, transesterification or esterification; protease, ***lipase***, ***cutinase***, phospholipase or esterase-catalyzed stereospecific resolution for stereospecific phenyl-propionic acid preparation
AU Ebdrup S; Deussen H J W; Zundel M; Bury P S
PA Novo-Nordisk
LO Bagsvaerd, Denmark.
PI WO 2001011073 15 Feb 2001
AI WO 2000-DK440 7 Aug 2000
PRAI DK 1999-1101 5 Aug 1999
DT Patent
LA English
OS WPI: 2001-211074 [21]

L6 ANSWER 9 OF 29 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 6
AN 2001-08031 BIOTECHDS

TI Enantiomer separation of substituted 3-phenyl-propanoic acid and its esters comprises enzymatic kinetic resolution by hydrolysis, transesterification or esterification; protease, ***lipase***, ***cutinase***, phospholipase and esterase
 AU Ebdrup S; Deussen H W; Zundel M
 PA Novo-Nordisk
 LO Bagsvaerd, Denmark.
 PI WO 2001011072 15 Feb 2001
 AI WO 2000-DK439 7 Aug 2000
 PRAI DK 1999-1100 5 Aug 1999
 DT Patent
 LA English
 OS WPI: 2001-202777 [20]

L6 ANSWER 10 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:630855 HCAPLUS

DN 135:191302

TI Nucleic acids encoding polypeptides having cellobiose dehydrogenase activity
 IN Golightly, Elizabeth J.; Brown, Kimberly M.

PA Novozymes Biotech, Inc., USA

SO U.S., 27 pp., Cont.-in-part of U.S. 6,033,891.
 CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6280976	B1	20010828	US 2000-479264	20000105
	US 6033891	A	20000307	US 1999-265108	19990309
PRAI	US 1999-265108	A2	19990309		

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 11-20

L6 ANSWER 11 OF 29 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 AN 2002-188222 [24] WPIDS

CR 2002-216714 [27]

DNC C2002-058052

TI Reduction of backstaining of fabric or textile, consists of contacting fabric or textile with composition having ***lipolytic*** enzyme.

DC A97 D16 D25 F06

IN DAIMON, K; UYAMA, N; FUKUYAMA, S; GLAD, S O S; MATSUI, T; SVENDSEN, A
 PA (NOVO) NOVOZYMES AS

CYC 97

PI WO 2001092453 A1 20011206 (200224)* EN 24 C11D003-386
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
 AU 2001063777 A 20011211 (200225) C11D003-386
 US 2002066144 A1 20020606 (200241) D06M010-00
 US 2002123123 A1 20020905 (200260) C12N009-24
 EP 1290129 A1 20030312 (200320) EN C11D003-386
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR

CN 1432058 A 20030723 (200365) C11D003-386
 MX 2002011733 A1 20030501 (200415) C11D003-386

ADT WO 2001092453 A1 WO 2001-DK384 20010605; AU 2001063777 A AU 2001-63777
 20010605; US 2002066144 A1 Provisional US 2000-211004P 20000612,
 Provisional US 2000-244351P 20001030, Provisional US 2000-253798P
 20001129, Provisional US 2001-265473P 20010131, Cont of WO 2001-DK384
 20010605, US 2001-924379 20010808; US 2002123123 A1 Provisional US
 2000-211004P 20000612, Provisional US 2000-244351P 20001030, Provisional US
 2000-253798P 20001129, Provisional US 2001-265473P 20010131, US
 2001-873075 20010601; EP 1290129 A1 EP 2001-938007 20010605, WO 2001-DK384
 20010605; CN 1432058 A CN 2001-810443 20010605; MX 2002011733 A1 WO
 2001-DK384 20010605, MX 2002-11733 20021127

FDT AU 2001063777 A Based on WO 2001092453; EP 1290129 A1 Based on WO
 2001092453; MX 2002011733 A1 Based on WO 2001092453

PRAI US 2001-265473P 20010131; DK 2000-861 20000602;

US 2000-211004P 20000612; DK 2000-1577 20001023;
 US 2000-244351P 20001030; DK 2000-1772 20001124;
 US 2000-253798P 20001129; DK 2001-100 20010119
 IC ICM C11D003-386; C12N009-24; D06M010-00
 ICS C07H021-04; C12N001-18; C12P021-02; D06M016-00; D06P005-15

L6 ANSWER 12 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:83190 HCAPLUS

DN 132:138442
 TI Cleaning of containers, manufacturing apparatus, and tools
 IN Festel, Gunter; Haensel, Eduard; Klein, Heike; Koch, Rainhard; Lund, Henrik

PA Bayer A.-G., Germany
 SO Ger. Offen., 10 pp.
 CODEN: GWXXBX

DT Patent
 LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 19834359	A1	20000203	DE 1998-19834359	19980730
PRAI DE 1998-19834359		19980730		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 13 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7
 AN 1999:795986 HCAPLUS

DN 132:46956

TI Bacterial mannanases and their gene sequence and industrial applications
 IN Kauppinen, Markus Sakari; Schulein, Martin; Schnorr, Kirk; Andersen, Lene Nonboe; Bjornvad, Mads Eskelund

PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 242 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9964619	A2	19991216	WO 1999-DK314	19990610
WO 9964619	A3	20000302		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2331199 AA 19991216 CA 1999-2331199 19990610

BR 9911086 A 20010220 BR 1999-11086 19990610

EP 1086211 A2 20010328 EP 1999-955504 19990610

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

AU 755850 B2 20021219 AU 1999-42573 19990610

AU 9942573 A1 19991230

JP 2004500004 T2 20040108 JP 2000-553609 19990610

US 6566114 B1 20030520 US 1999-339159 19990624

US 2003203466 A1 20031030 US 2003-372054 20030220

PRAI US 1998-111256 A 19980610
 DK 1998-1340 A 19981020
 DK 1998-1341 A 19981020

US 1998-105970P P 19981028

US 1998-106054P P 19981028

DK 1998-1725 A 19981223

DK 1999-306 A 19990305

DK 1999-307 A 19990305

DK 1999-308 A 19990305

DK 1999-309 A 19990305

US 1999-123543P P 19990309

US 1999-123623P P 19990310

US 1999-123641P P 19990310

US 1999-123642P P 19990311

WO 1998-PA1340 A 19981020

WO 1998-PA1341 A 19981020

WO 1998-PA1725	A	19981223
WO 1999-PA306	A	19990305
WO 1999-PA307	A	19990305
WO 1999-PA308	A	19990305
WO 1999-PA309	A	19990305
WO 1999-DK314	W	19990610
US 1999-339159	A3	19990624

L6 ANSWER 14 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:48790 HCAPLUS
 DN 130:106943
 TI Variants of *Hemicola* family 6 endo-1,4-.beta.-glucanases CelA and CelB and
 their use in cleaning compositions
 IN Lund, Henrik; Nielsen, Jack Bech; Schulein, Martin; Damgaard, Bo;
 Andersen, Kim Vilbour
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 271 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9901544	A1	19990114	WO 1998-DK299	19980702
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9879088	A1	19990125	AU 1998-79088	19980702
	EP 1002061	A1	20000524	EP 1998-929249	19980702
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
PRAI	DK 1997-813		19970704		
	WO 1998-DK299		19980702		

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 15 OF 29 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 AN 1999-620216 [53] WPIDS
 DNC C1999-180998
 TI Treatment of dyed denim fabric or garment with a pectolytic enzyme to
 induce localized areas of variations in color density.
 DC D16 F06
 IN ANDERSEN, B K; KALUM, L
 PA (NOVO) NOVO-NORDISK AS; (NOVO) NOVO NORDISK AS
 CYC 87
 PI WO 9951808 A1 19991014 (199953)* EN 33 D06L003-00
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
 OA PT SD SE SL SZ UG ZW
 W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB
 GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
 LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
 TT UA UG UZ VN YU ZA ZW
 AU 9930261 A 19991025 (200011) D06L003-00
 US 6146428 A 20001114 (200060) C09B067-10
 EP 1066422 A1 20010110 (200103) EN D06L003-00
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
 JP 2002510756 W 20020409 (200227) 37 D06C029-00
 ADT WO 9951808 A1 WO 1999-DK198 19990331; AU 9930261 A AU 1999-30261 19990331;
 US 6146428 A Provisional US 1998-81136P 19980409, US 1999-283176 19990401;
 EP 1066422 A1 EP 1999-911646 19990331, WO 1999-DK198 19990331; JP
 2002510756 W WO 1999-DK198 19990331, JP 2000-542517 19990331
 FDT AU 9930261 A Based on WO 9951808; EP 1066422 A1 Based on WO 9951808; JP
 2002510756 W Based on WO 9951808
 PRAI DK 1998-484 19980403
 IC ICM C09B067-10; D06C029-00; D06L003-00
 ICS D06L003-11; D06M016-00
 ICA C11D003-386
 ICI C11D003:386

L6 ANSWER 16 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:163676 HCAPLUS
 DN 128:214198

TI Cloning and gene sequence of novel endoglucanases from *Celvibrio mixtus* and *C. gilvus*
IN Bjornvad, Mads Eskelund; Nielsen, Preben
PA Novo Nordisk A/S, Den.; Bjornvad, Mads Eskelund; Nielsen, Preben
SO PCT Int. Appl., 118 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9808940	A1	19980305	WO 1997-DK348	19970826
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
PRAI	AU 9739389	A1	19980319	AU 1997-39389	19970826
	DK 1996-893		19960826		
	DK 1996-1015		19960917		
	WO 1997-DK348		19970826		

OS MARPAT 128:214198

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 17 OF 29 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1997-13450 BIOTECHDS
TI Filamentous fungus with reduced or lacking endogenous alkaline protease activity;
protease-deficient host, e.g. *Aspergillus oryzae*, for recombinant protein secretion

AU Lehmbeck J
PA Novo-Nordisk
LO Bagsvaerd, Denmark.
PI WO 9735956 2 Oct 1997
AI WO 1997-DK135 26 Mar 1997
PRAI DK 1996-555 9 May 1996; DK 1996-354 27 Mar 1996
DT Patent
LA English
OS WPI: 1997-489622 [45]

L6 ANSWER 18 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:42498 HCAPLUS
DN 128:98568
TI Modification of cryptic splice sites genes intended for expression in filamentous fungal hosts

IN Thompson, Sheryl Ann
PA Novo Nordisk Biotech, Inc., USA
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9749821	A1	19971231	WO 1997-US10630	19970620
	W: AL, AU, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MW, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
PRAI	AU 9734031	A1	19980114	AU 1997-34031	19970620
	EP 912748	A1	19990506	EP 1997-930125	19970620
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	JP 2000513223	T2	20001010	JP 1998-503329	19970620
	JP US 1996-20930P	P	19960627		
	WO 1997-US10630	W	19970620		

L6 ANSWER 19 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:717789 HCAPLUS
DN 127:345599
TI Animal feed additives

IN Mullertz, Anette; Jensen, Lene Beck; Jensen, Betina Kastbjerg
 PA Novo Nordisk A/S, Den.; Mullertz, Anette; Jensen, Lene Beck; Jensen,
 Betina Kastbjerg
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9739638	A1	19971030	WO 1997-DK172	19970417
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CN 1169752	A	19980107	CN 1996-191607	19960126
	CA 2251798	AA	19971030	CA 1997-2251798	19970417
	AU 9723818	A1	19971112	AU 1997-23818	19970417
	AU 730501	B2	20010308		
	EP 902623	A1	19990324	EP 1997-919294	19970417
	R: BE, DE, ES, FR, GB, IT, NL				
	CN 1216446	A	19990512	CN 1997-194061	19970417
	US 6264946	B1	20010724	US 1998-169588	19981009
PRAI	DK 1996-478	A	19960423		
	WO 1997-DK172	W	19970417		

L6 ANSWER 20 OF 29 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:501483 HCPLUS
 DN 127:131977
 TI Protease-deficient filamentous fungi for use as expression hosts for
foreign proteins
 IN Christensen, Tove; Lehmbeck, Jan
 PA Novo Nordisk a/s, Den.; Christensen, Tove; Lehmbeck, Jan
 SO PCT Int. Appl., 80 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9722705	A1	19970626	WO 1996-DK528	19961216
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9710928	A1	19970714	AU 1997-10928	19961216
	EP 866872	A1	19980930	EP 1996-941590	19961216
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	CN 1204370	A	19990106	CN 1996-199006	19961216
	JP 2000501620	T2	20000215	JP 1997-522430	19961216
	US 6013452	A	20000111	US 1998-79415	19980514
PRAI	DK 1995-1428		19951215		
	WO 1996-DK528		19961216		

=> d 21-29

L6 ANSWER 21 OF 29 HCPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:240584 HCPLUS
 DN 126:222277
 TI Recombinant ***lipases*** with C- and/or N-terminal extensions and
their use in detergents
 IN Fuglsang, Claus Crone; Okkels, Jens Sigurd; Petersen, Dorte Aaby; Patkar,
Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben;
Joergensen, Steen Troels; et al.
 PA Novo Nordisk A/s, Den.; Fuglsang, Claus Crone; Okkels, Jens Sigurd;
Petersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind,
Jesper; Halkier, Torben

SQ PCT Int. Appl., 191 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9704079	A1	19970206	WO 1996-DK322	19960712
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG			RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA	
	AU 9664141	A1	19970218	AU 1996-64141	19960712
	EP 839186	A1	19980506	EP 1996-923878	19960712
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	CN 1193346	A	19980916	CN 1996-196371	19960712
	JP 2001526523	T2	20011218	JP 1997-506185	19960712
	US 6495357	B1	20021217	US 1998-7288	19980114
	US 2003199069	A1	20031023	US 2002-232544	20020830
PRAI	DK 1995-832	A	19950714		
	DK 1995-1013	A	19950913		
	DK 1995-1096	A	19950929		
	DK 1995-1306	A	19951121		
	US 1996-11634P	P	19960214		
	DK 1996-372	A	19960401		
	US 1996-20461P	P	19960507		
	DK 1995-905	A	19950811		
	US 1996-11627P	P	19960214		
	DK 1996-374	A	19960401		
	US 1996-16754P	P	19960507		
	WO 1996-DK322	W	19960712		
	WO 1996-DK341	A2	19960812		
	US 1998-7288	A1	19980114		

L6 ANSWER 22 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:220628 HCAPLUS

DN 126:208956

TI Recombinant ***lipases*** with C- and/or N-terminal extensions and their use in detergents

IN Fuglsang, Claus Crone; Okkels, Jens Sigurd; Petersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben; Joergensen, Steen Troels; et al.

PA Novo Nordisk A/s, Den.; Fuglsang, Claus Crone; Okkels, Jens Sigurd; Petersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben

SO PCT Int. Appl., 197 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9704078	A1	19970206	WO 1996-DK321	19960712
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG			RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA	
	AU 9664140	A1	19970218	AU 1996-64140	19960712
	CN 1193346	A	19980916	CN 1996-196371	19960712
PRAI	DK 1995-832	A	19950714		
	DK 1995-1013	A	19950913		
	DK 1995-1096	A	19950929		
	DK 1995-1306	A	19951121		
	US 1996-11634P	P	19960214		
	DK 1996-372	A	19960401		
	US 1996-20461P	P	19960507		
	WO 1996-DK321	W	19960712		

L6 ANSWER 23 OF 29 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

AN 1997-363661 [33] WPIDS

DNC C1997-116599

TI Detergent composition - comprises enzyme immobilised by covalent binding

DC on activated polymer.

IN A97 D16 D25

PA BAECK, A C; HERBOTS, I M A; JANSEN, M P; WEVERS, J; HERBOTS, I M A J
(PROC) PROCTER & GAMBLE CO

CYC 68

PI WO 9724421 A2 19970710 (199733)* EN 55 C11D000-00
RW: AT BE CH DE DK ES FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ
UG

W: AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP
KG KP KR KZ LK LR LT LU LV MD MG MK MN MX NO NZ PL PT RO RU SE SG
SI SK TJ TM TT UA UZ VN

AU 9646907 A 19970728 (199746) C11D003-00

WO 9724421 A3 19970925 (199814) C11D000-00

EP 874893 A2 19981104 (199848) EN C11D003-386

R: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

JP 11502255 W 19990223 (199918) 50 C11D003-386

BR 9510676 A 19991123 (200013) C11D003-386

US 6030933 A 20000229 (200018) C11D007-42

MX 9805356 A1 19981001 (200019) C11D000-00

ADT WO 9724421 A2 WO 1995-US17039 19951229; AU 9646907 A WO 1995-US17039
19951229, AU 1996-46907 19951229; WO 9724421 A3 WO 1995-US17039 19951229;
EP 874893 A2 EP 1995-944562 19951229, WO 1995-US17039 19951229; JP
11502255 W WO 1995-US17039 19951229, JP 1997-524287 19951229; BR 9510676 A
BR 1995-10676 19951229, WO 1995-US17039 19951229; US 6030933 A WO
1995-US17039 19951229, US 1998-101073 19980629; MX 9805356 A1 MX 1998-5356
19980629

FDT AU 9646907 A Based on WO 9724421; EP 874893 A2 Based on WO 9724421; JP
11502255 W Based on WO 9724421; BR 9510676 A Based on WO 9724421; US
6030933 A Based on WO 9724421

PRAI WO 1995-US17039 19951229

IC ICM C11D000-00; C11D003-00; C11D003-386; C11D007-42

ICS C11D001-62; C11D003-12; C11D003-37; C12N011-02; C12S011-00;
D06L003-37

L6 ANSWER 24 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1996:718350 HCAPLUS

DN 126:3771

TI Mol. screening and PCR cloning of novel endoglucanases from fungi for use
as detergents, textile treatment, and paper pulp processing

IN Schuelein, Martin; Andersen, Lene Nonboe; Lassen, Soeren Flensted;
Kauppinen, Markus Sakari; Lange, Lene; Nielsen, Ruby Ilum; Ihara, Michiko;
Takagi, Shinobu

PA Novo Nordisk A/s, Den.

SO PCT Int. Appl., 406 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WQ 9629397	A1	19960926	WO 1996-DK105	19960318
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	CA 2214116	AA	19960926	CA 1996-2214116	19960318
	AU 9649394	A1	19961008	AU 1996-49394	19960318
	AU 715423	B2	20000203		
	EP 815209	A1	19980107	EP 1996-905762	19960318
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	CN 1182451	A	19980520	CN 1996-193494	19960318
	BR 9607646	A	19980616	BR 1996-7646	19960318
	JP 11502701	T2	19990309	JP 1996-527993	19960318
	JP 3360830	B2	20030107		
	NZ 303162	A	20000128	NZ 1996-303162	19960318
	US 6001639	A	19991214	US 1996-651136	19960521
	US 6387690	B1	20020514	US 1999-229911	19990113
	US 2003054539	A1	20030320	US 2001-7521	20011210
PRAI	DK 1995-272	A	19950317		
	DK 1995-885	A	19950808		
	DK 1995-886	A	19950808		
	DK 1995-887	A	19950808		
	DK 1995-888	A	19950808		
	DK 1996-137	A	19960212		

WO 1996-DK105 W 19960318
US 1996-651136 A3 19960521
US 1999-229911 A1 19990113
OS MARPAT 126:3771

L6 ANSWER 25 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:377223 HCAPLUS

DN 125:52369

TI An enzyme and enzyme preparation with endoglucanase activity from
Acremonium species

IN Schuelein, Martin; Oxenboell, Karen Margrethe; Andersen, Lene Nonboe;
Lassen, Soeren Flensted; Kauppinen, Markus Sakari; Nielsen, Jack Bech

PA Novo Nordisk A/s, Den.

SO PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9611262	A1	19960418	WO 1995-DK400	19951006
	W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2201871	AA	19960418	CA 1995-2201871	19951006
	AU 9536045	A1	19960502	AU 1995-36045	19951006
	EP 788541	A1	19970813	EP 1995-933337	19951006
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 10507073	T2	19980714	JP 1996-512274	19951006
	US 5919691	A	19990706	US 1997-809763	19970320
	US 6071735	A	20000606	US 1997-956253	19971022
PRAI	DK 1994-1160	A	19941006		
	DK 1994-1296	A	19941111		
	WO 1995-DK400	W	19951006		

L6 ANSWER 26 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:147846 HCAPLUS

DN 124:195983

TI Non-toxic, non-toxigenic, non-pathogenic Fusarium expression system and
promoters and terminators for use therein

IN Royer, John C.; Moyer, Donna L.; Yoder, Wendy; Shuster, Jeffrey R.

PA Novo Nordisk Biotech, Inc., USA

SO PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9600787	A1	19960111	WO 1995-US7743	19950615
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9527058	A1	19960125	AU 1995-27058	19950615
	CN 1151762	A	19970611	CN 1995-193875	19950615
	EP 777737	A1	19970611	EP 1995-922334	19950615
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 10500024	T2	19980106	JP 1995-503267	19950615
	JP 3167729	B2	20010521	JP 1996-503267	19950615
	JP 2001169791	A2	20010626	JP 2000-349977	19950615
	JP 3511005	B2	20040329		
	FI 9605220	A	19970225	FI 1996-5220	19961227
	US 5837847	A	19981117	US 1997-921426	19970829
PRAI	US 1994-269449	A	19940630		
	US 1995-404678	A	19950315		
	US 1995-456433	B1	19950601		
	JP 1996-503267	A3	19950615		
	WO 1995-US7743	W	19950615		

1996:110466 HCAPLUS

124:137832

Cloning of the *Aspergillus oryzae* areA gene, and protein production in fungi that do not produce proteinases

Christensen, Tove; Hynes, Michael J.

Novo Nordisk A/S, Den.

PCT Int. Appl., 41 pp.

CODEN: PIXXD2

Patent

English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9535385	A1	19951228	WO 1995-DK254	19950619
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU	9527338	A1	19960115	AU 1995-27338	19950619
EP	770139	A1	19970502	EP 1995-922443	19950619
EP	770139	B1	20031210		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CN	1150824	A	19970528	CN 1995-193631	19950619
JP	10501414	T2	19980210	JP 1995-501508	19950619
AT	256191	E	20031215	AT 1995-922443	19950619
US	6025185	A	20000215	US 1996-750458	19961203
FI	9605031	A	19961216	FI 1996-5031	19961216
PRAI	DK 1994-717	A	19940617		
	WO 1995-DK254	W	19950619		

1995:813053 HCAPLUS

124:47631

Aspergillus foetidus system for expression of heterologous enzymes

Berka, Randy M.; Yoder, Wendy; Takagi, Shinobu; Boominathan, Karuppan Chettier

Novo Nordisk Biotech, Inc., USA

PCT Int. Appl., 46 pp.

CODEN: PIXXD2

Patent

English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9515390	A1	19950608	WO 1994-US13612	19941129
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, US, UZ, VN				
	RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA	2178008	AA	19950608	CA 1994-2178008	19941129
AU	9512609	A1	19950619	AU 1995-12609	19941129
AU	690617	B2	19980430		
EP	730656	A1	19960911	EP 1995-903612	19941129
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CN	1139456	A	19970101	CN 1994-194682	19941129
JP	09505481	T2	19970603	JP 1995-515687	19941129
FI	9602287	A	19960726	FI 1996-2287	19960531
PRAI	US 1993-160591	A	19931201		
	WO 1994-US13612	W	19941129		

1995-07820 BIOTECHDS

Lipolytic enzymes and their use in the oleochemical and

detergent industry;

glycoside fatty acid ester or glycolipid surfactant production and
cocoa butter substitute production by palm oil esterification using
immobilized ***lipase*** (conference abstract)

Carlsen S

Novo-Nordisk

Novo Nordisk A/S. Novo Alle, DK-2880 Bagsvaerd, Denmark.

> dis his

(FILE 'HOME' ENTERED AT 11:35:36 ON 03 SEP 2004)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 11:35:51 ON 03 SEP 2004

L1 26 S (LIPOLYTIC OR LIPASE) (10A) CUTIN

L2 0 S L1 AND INSOLENS

L3 983 S (LIPOLYTIC OR LIPASE) AND (CUTIN OR CUTINASE)

L4 40 S L3 AND INSOLENS

L5 0 S L1 NOT L3

L6 29 DUP REM L4 (11 DUPLICATES REMOVED)

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COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION

64.80 65.01

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 11:43:23 ON 03 SEP 2004